Title:

Subtitle

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Abstract

1 Introduction

The National Institute of Standards and Technology Artificial Intelligence (AI) Risk Management Framework (RMF).[?]

- 2 Generative AI Governance
- 3 Generative AI Inventories
- 4 Generative AI Risk Tiers
- 5 Generative AI Risk Measurement
- 6 Generative AI Risk Management

Conclusion

Acknowledgments

Thank you to Bernie Siskin and Nick Schmidt of BLDS and Eric Sublett of Relman Colfax for formative discussions relating to GAI risk tiering.

Abbreviations

- AI: Artificial Intelligence
- AI RMF: Artificial Intelligence Risk Management Framework
- GAI: Generative AI
- RMF: Risk Management Framework

Appendix A: Generative AI–Trustworthy Characteristic Crosswalk

6.1 A.1: Trustworthy Characteristic to Generative AI Risk Crosswalk

Table 1: Trustworthy Characteristic to Generative AI Risk Crosswalk.

Accountable and Transparent	Explainable and Interpretable	Fair with Harmful Bias Managed	Privacy Enhanced
Data Privacy	Human-AI Configuration	Confabulation	Data Privacy
Environmental	Value Chain and Component Integration	Environmental	Human-AI Configuration
Human-AI Configuration		Human-AI Configuration	Information Security
Information Integrity		Intellectual Property	Intellectual Property
Intellectual Property		Obscene, Degrading, and/or Abusive Content	Value Chain and Component Integration
Value Chain and Component Integration		Toxicity, Bias, and Homogenization	
		Value Chain and Component Integration	

Safe	Secure and Resilient	Valid and Reliable
CBRN Information Confabulation Dangerous or Violent Recommendations Data Privacy Environmental Human-AI Configuration Information Integrity Information Security Obscene, Degrading, and/or Abusive Content	Dangerous or Violent Recommendations Data Privacy Human-AI Configuration Information Security Value Chain and Component Integration	Confabulation Human-AI Configuration Information Integrity Information Security Toxicity, Bias, and Homogenization Value Chain and Component Integration

6.2 A.2: Generative AI Risk to Trustworthy Characteristic Crosswalk

Table 2: Generative AI Risk to Trustworthy Characteristic Crosswalk.

CBRN Information	BRN Information Confabulation		Dangerous or Violent Recommendations		Data Privacy	<u> </u>	
Safe	Fair with Ha Safe Valid and R	armful Bias Managed	Safe Secure and l	Resilient		Accountable and Transcription Privacy Enhanced Safe Secure and Resilient	
Environmental		Human-AI Configura	ation	Information	n Integrity	Information Secu	rity
Accountable and Transparent Fair with Harmful Bias Managed Safe		Accountable and Transparent Explainable and Interpretable Fair with Harmful Bias Managed Privacy Enhanced Safe Secure and Resilient Valid and Reliable		Accountable and Transparent Safe Valid and Reliable		t Privacy Enhance Safe Secure and Resili Valid and Reliab	ent
Intellectual Property		Obscene, Degrading, and/or Abusive Content Toxici		Toxicity, Bias, a	nd Homogenization	Value Chain and Component Integration	
	Accountable and Transparent Fair with Harmful Bias Managed Safe Privacy Enhanced		Fair with Harmful Bias Managed Valid and Reliable		Accountable and Transparent Explainable and Interpretable Fair with Harmful Bias Managed Privacy Enhanced Safe Secure and Resilient Valid and Reliable		

Appendix B: Example Risk Tiers for Generative AI

Appendix C: List of Publicly Available Model Testing Suites ("Evals")

C.1: Publicly Available Model Testing Suites ("Evals") by Trustworthy Characteristic

Table 3: Publicly Available Model Testing Suites ("Evals") by Trustworthy Characteristic.

Accountable and Transparent

An Evaluation on Large Language Model Outputs: Discourse and Memorization:

Benchmarking (with human scoring, see Appendix B)

BloombergGPT - Benchmarking

DecodingTrust: Machine Ethics - Benchmarking (Machine Ethics Evaluation)

Evaluation Harness: ETHICS - Benchmarking

HELM: Memorization and copyright - Benchmarking

LegalBench - Benchmarking (with algorithmic and human scoring)

Fair with Harmful Bias Managed

BELEBELE - Benchmarking

Big-bench: Low-resource language, Non-English, Translation - Benchmarking Big-bench: Social bias, Racial bias, Gender bias, Religious bias - Benchmarking

Big-bench: Toxicity - Benchmarking DecodingTrust: Fairness - Benchmarking DecodingTrust: Stereotype Bias - Benchmarking

DecodingTrust: Toxicity - Benchmarking

Eval Gauntlet: Language Understanding - Benchmarking

Evaluation Harness: C-Eval (Chinese evaluation suite), MGSM, Translation - Benchmarking

Evaluation Harness: CrowS-Pairs - Benchmarking Evaluation Harness: ToxiGen - Benchmarking

Finding New Biases in Language Models with a Holistic Descriptor Dataset - Benchmarking

From Pretraining Data to Language Models to Downstream Tasks:

Tracking the Trails of Political Biases Leading to Unfair NLP Models - Benchmarking

HELM: Bias - Benchmarking

HELM: Language (Twitter AAE) - Benchmarking

HELM: Toxicity - Benchmarking

HELM: Toxicity detection - Benchmarking

MASSIVE - Benchmarking

The Self-Perception and Political Biases of ChatGPT - Benchmarking

Towards Measuring the Representation of Subjective Global Opinions in Language Models - Benchmarking

Privacy Enhanced

HELM: Memorization and copyright - Benchmarking

LLM Privacy - Attack MIMIR - Benchmarking

Safe

 $\operatorname{Big-bench:}$ Convince Me (specific task) - Benchmarking

Big-bench: Self-Awareness - Benchmarking Big-bench: Truthfulness - Benchmarking

HELM: Narrative Reiteration, Narrative Wedging - Benchmarking (with human scoring)

HELM: Question answering, Summarization - Benchmarking

Mark My Words - Benchmark

Publicly Available Model Testing Suites ("Evals") by Trustworthy Characteristic (continued).

Secure and Resilient

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation - Attack

DecodingTrust: Adversarial Robustness, Robustness Against Adversarial Demonstrations - Benchmarking

 ${\tt detect\text{-}pretrain\text{-}code} - {\tt Attack/Benchmarking}$

In-The-Wild Jailbreak Prompts on LLMs - Attack

JailbreakingLLMs - Attack

LLM Privacy - Attack

Mark My Words - Benchmark

MIMIR - Benchmarking

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs - Attack

Valid and Reliable

Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy,

Negation, Computer code, Probabilistic reasoning, Social reasoning, Analogical reasoning, Multi-step,

Understanding the World - Benchmarking

Big-bench: Analytic entailment (specific task), Formal fallacies and syllogisms with negation (specific task),

Entailed polarity (specific task) - Benchmarking

Big-bench: Context Free Question Answering - Benchmarking

Big-bench: Contextual question answering, Reading comprehension, Question generation - Benchmarking

Big-bench: Creativity - Benchmarking

Big-bench: Emotional understanding, Intent recognition, Humor - Benchmarking

Big-bench: Morphology, Grammar, Syntax - Benchmarking

Big-bench: Out-of-Distribution Robustness - Benchmarking

Big-bench: Paraphrase - Benchmarking

Big-bench: Sufficient information - Benchmarking

Big-bench: Summarization - Benchmarking

Decoding Trust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations - Benchmarking

Eval Gauntlet Reading comprehension - Benchmarking

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming - Benchmarking

Eval Gauntlet: Language Understanding - Benchmarking

Eval Gauntlet: World Knowledge - Benchmarking

Evaluation Harness: BLiMP - Benchmarking Evaluation Harness: CoQA, ARC - Benchmarking

Evaluation Harness: GLUE - Benchmarking

 $Evaluation\ Harness:\ HellaSwag,\ OpenBookQA\ -\ General\ commonsense\ knowledge,\ TruthfulQA\ -\ Factuality\ of\ knowledge\ -\ Benchmarking\ of\ knowledge\ -\ Benc$

Evaluation Harness: MuTual - Benchmarking

Evaluation Harness: PIQA, PROST - Physical reasoning, MC-TACO - Temporal reasoning, MathQA - Mathematical reasoning,

LogiQA - Logical reasoning, SAT Analogy Questions - Similarity of semantic relations, DROP,

MuTual - Multi-step reasoning - Benchmarking

FLASK: Background Knowledge - Benchmarking (with human and model scoring)

FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension,

Completeness - Benchmarking (with human and model scoring)

FLASK: Metacognition - Benchmarking (with human and model scoring)

FLASK: Readability, Conciseness, Insightfulness - Benchmarking (with human and model scoring)

HELM: Knowledge - Benchmarking

HELM: Language - Benchmarking

HELM: Miscellaneous text classification - Benchmarking

HELM: Question answering - Benchmarking

HELM: Reasoning - Benchmarking

HELM: Robustness to contrast sets - Benchmarking

HELM: Summarization - Benchmarking

Hugging Face: Conversational - Benchmarking

Hugging Face: Fill-mask, Text generation - Benchmarking

Hugging Face: Question answering - Benchmarking

Hugging Face: Summarization - Benchmarking

Hugging Face: Text classification, Token classification, Zero-shot classification - Benchmarking

MT-bench - Benchmarking (with human and model scoring)

Putting GPT-3's Creativity to the (Alternative Uses) Test - Benchmarking (with human scoring)

C.2: Publicly Available Model Testing Suites ("Evals") by Generative AI Risk

Table 4: Publicly Available Model Testing Suites ("Evals") by Generative AI Risk. Note that all available evals maybe applied to Confabulation, Dangerous or Violent Recommendations, Data Privacy, Human-AI Configuration, Information Integrity, Information Security, Intellectual Property, Toxicity, Bias, and Homogenization, and Value Chain and Component Integration risks.

CBRN Information

Big-bench: Convince Me (specific task) - Benchmarking

Big-bench: Self-Awareness - Benchmarking Big-bench: Truthfulness - Benchmarking

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation - Attack

DecodingTrust: Adversarial Robustness, Robustness Against Adversarial Demonstrations - Benchmarking

detect-pretrain-code - Attack/Benchmarking

HELM: Narrative Reiteration, Narrative Wedging - Benchmarking (with human scoring)

HELM: Question answering, Summarization - Benchmarking

In-The-Wild Jailbreak Prompts on LLMs - Attack

JailbreakingLLMs - Attack

LLM Privacy - Attack

MIMIR - Benchmarking

Mark My Words - Benchmark

TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs - Attack

Confabulation, Dangerous or Violent Recommendations, Data Privacy, Human-AI Configuration,

Information Integrity, Information Security, Intellectual Property, Toxicity, Bias, and Homogenization, and Value Chain and Component Integration

An Evaluation on Large Language Model Outputs: Discourse and Memorization:

Benchmarking (with human scoring, see Appendix B)

BELEBELE - Benchmarking

Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy,

 $Negation,\ Computer\ code,\ Probabilistic\ reasoning,\ Social\ reasoning,\ Analogical\ reasoning,\ Multi-step,$

Understanding the World - Benchmarking

Big-bench: Analytic entailment (specific task), Formal fallacies and syllogisms with negation (specific task),

Entailed polarity (specific task) - Benchmarking

Big-bench: Context Free Question Answering - Benchmarking

Big-bench: Contextual question answering, Reading comprehension, Question generation - Benchmarking

Big-bench: Convince Me (specific task) - Benchmarking

Big-bench: Creativity - Benchmarking

Big-bench: Emotional understanding, Intent recognition, Humor - Benchmarking

Big-bench: Low-resource language, Non-English, Translation - Benchmarking

Big-bench: Morphology, Grammar, Syntax - Benchmarking

Big-bench: Out-of-Distribution Robustness - Benchmarking

Big-bench: Paraphrase - Benchmarking

Big-bench: Self-Awareness - Benchmarking

Big-bench: Social bias, Racial bias, Gender bias, Religious bias - Benchmarking

Big-bench: Sufficient information - Benchmarking

Big-bench: Summarization - Benchmarking

Big-bench: Toxicity - Benchmarking

Big-bench: Truthfulness - Benchmarking

BloombergGPT - Benchmarking

Catastrophic Jailbreak of Open-source LLMs via Exploiting Generation - Attack

DecodingTrust: Adversarial Robustness, Robustness Against Adversarial Demonstrations - Benchmarking

DecodingTrust: Fairness - Benchmarking

DecodingTrust: Machine Ethics - Benchmarking (Machine Ethics Evaluation)

DecodingTrust: Out-of-Distribution Robustness, Adversarial Robustness, Robustness Against Adversarial Demonstrations - Benchmarking

 ${\bf Decoding Trust:\ Stereotype\ Bias\ -\ Benchmarking}$

DecodingTrust: Toxicity - Benchmarking

detect-pretrain-code - Attack/Benchmarking

Eval Gauntlet Reading comprehension - Benchmarking

Eval Gauntlet: Commonsense reasoning, Symbolic problem solving, Programming - Benchmarking

Eval Gauntlet: Language Understanding - Benchmarking

Eval Gauntlet: World Knowledge - Benchmarking

Publicly Available Model Testing Suites ("Evals") by Generative AI Risk. Note that all available evals maybe applied to Confabulation, Dangerous or Violent Recommendations, Data Privacy, Human-AI Configuration, Information Integrity, Information Security, Intellectual Property, Toxicity, Bias, and Homogenization, and Value Chain and Component Integration risks (continued).

Confabulation, Dangerous or Violent Recommendations, Data Privacy, Human-AI Configuration, Information Integrity, Information Security, Intellectual Property, Toxicity, Bias, and Homogenization, and Value Chain and Component Integration (continued) Evaluation Harness: BLiMP - Benchmarking Evaluation Harness: C-Eval (Chinese evaluation suite), MGSM, Translation - Benchmarking Evaluation Harness: CoQA, ARC - Benchmarking Evaluation Harness: CrowS-Pairs - Benchmarking Evaluation Harness: ETHICS - Benchmarking Evaluation Harness: GLUE - Benchmarking Evaluation Harness: HellaSwag, OpenBookQA - General commonsense knowledge, TruthfulQA - Factuality of knowledge - Benchmarking Evaluation Harness: MuTual - Benchmarking Evaluation Harness: PIQA, PROST - Physical reasoning, MC-TACO - Temporal reasoning, MathQA - Mathematical reasoning, LogiQA - Logical reasoning, SAT Analogy Questions - Similarity of semantic relations, DROP, MuTual – Multi-step reasoning - Benchmarking FLASK: Logical correctness, Logical robustness, Logical efficiency, Comprehension, Completeness - Benchmarking (with human and model scoring) FLASK: Readability, Conciseness, Insightfulness - Benchmarking (with human and model scoring) Finding New Biases in Language Models with a Holistic Descriptor Dataset - Benchmarking From Pretraining Data to Language Models to Downstream Tasks: Tracking the Trails of Political Biases Leading to Unfair NLP Models - Benchmarking HELM: Bias - Benchmarking HELM: Knowledge - Benchmarking HELM: Language (Twitter AAE) - Benchmarking HELM: Language - Benchmarking HELM: Memorization and copyright - Benchmarking HELM: Miscellaneous text classification - Benchmarking HELM: Narrative Reiteration, Narrative Wedging - Benchmarking (with human scoring) HELM: Question answering - Benchmarking HELM: Question answering, Summarization - Benchmarking HELM: Reasoning - Benchmarking HELM: Robustness to contrast sets - Benchmarking HELM: Summarization - Benchmarking HELM: Toxicity - Benchmarking HELM: Toxicity detection - Benchmarking Hugging Face: Conversational - Benchmarking Hugging Face: Fill-mask, Text generation - Benchmarking Hugging Face: Question answering - Benchmarking Hugging Face: Summarization - Benchmarking Hugging Face: Text classification, Token classification, Zero-shot classification - Benchmarking In-The-Wild Jailbreak Prompts on LLMs - Attack JailbreakingLLMs - Attack LLM Privacy - Attack LegalBench - Benchmarking (with algorithmic and human scoring) MASSIVE - Benchmarking MIMIR - Benchmarking MT-bench - Benchmarking (with human and model scoring) Mark My Words - Benchmark Putting GPT-3's Creativity to the (Alternative Uses) Test - Benchmarking (with human scoring) TAP: A Query-Efficient Method for Jailbreaking Black-Box LLMs - Attack

Towards Measuring the Representation of Subjective Global Opinions in Language Models - Benchmarking

The Self-Perception and Political Biases of ChatGPT - Benchmarking

Publicly Available Model Testing Suites ("Evals") by Generative AI Risk. Note that all available evals maybe applied to Confabulation, Dangerous or Violent Recommendations, Data Privacy, Human-AI Configuration, Information Integrity, Information Security, Intellectual Property, Toxicity, Bias, and Homogenization, and Value Chain and Component Integration risks (continued).

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Environmental
An Evaluation on Large Language Model Outputs: Discourse and Memorization - Benchmarking (with human scoring, see Appendix B)
BELEBELE - Benchmarking
Big-bench: Algorithms, Logical reasoning, Implicit reasoning, Mathematics, Arithmetic, Algebra, Mathematical proof, Fallacy,
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Big-bench: Out-of-Distribution Robustness - Benchmarking
Big-bench: Paraphrase - Benchmarking
Big-bench: Social bias, Racial bias, Gender bias, Religious bias - Benchmarking
Big-bench: Sufficient information - Benchmarking
Big-bench: Summarization - Benchmarking
Big-bench: Toxicity - Benchmarking
BloombergGPT - Benchmarking
DecodingTrust: Fairness - Benchmarking
DecodingTrust: Machine Ethics - Benchmarking (Machine Ethics Evaluation)
Decoding Trust:\ Out-of-Distribution\ Robustness,\ Adversarial\ Robustness,\ Robustness,\ Robustness\ Against\ Adversarial\ Demonstrations\ -\ Benchmarking\ Adversarial\ Robustness\ Against\ Adversarial\ Robustness\ Against\ Adversarial\ Demonstrations\ -\ Benchmarking\ Adversarial\ Robustness\ Against\ Adversarial\ Demonstrations\ -\ Benchmarking\ Adversarial\ Robustness\ Against\ Adversarial\ Robustness\ Against \ Adversarial\ Robustness\ Against\ Adversarial\ Robustness\ A
DecodingTrust: Stereotype Bias - Benchmarking
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Eval Gauntlet Reading comprehension - Benchmarking
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Eval Gauntlet: World Knowledge - Benchmarking
Evaluation Harness: BLiMP - Benchmarking
Evaluation Harness: C-Eval (Chinese evaluation suite), MGSM, Translation - Benchmarking
Evaluation Harness: CoQA, ARC - Benchmarking
Evaluation Harness: CrowS-Pairs - Benchmarking
Evaluation Harness: ETHICS - Benchmarking
Evaluation Harness: GLUE - Benchmarking
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HELM: Summarization - Benchmarking HELM: Toxicity - Benchmarking

HELM: Toxicity detection - Benchmarking

Publicly Available Model Testing Suites ("Evals") by Generative AI Risk. Note that all available evals maybe applied to Confabulation, Dangerous or Violent Recommendations, Data Privacy, Human-AI Configuration, Information Integrity, Information Security, Intellectual Property, Toxicity, Bias, and Homogenization, and Value Chain and Component Integration risks (continued).

Environmental (continued)

Hugging Face: Conversational - Benchmarking

Hugging Face: Fill-mask, Text generation - Benchmarking

 $\label{eq:Hugging Face: Question answering - Benchmarking} \ \ \mathsf{Hugging Face: Question answering - Benchmarking}$

Hugging Face: Summarization - Benchmarking

Hugging Face: Text classification, Token classification, Zero-shot classification - Benchmarking

Hugging Face: Conversational - Benchmarking

Hugging Face: Fill-mask, Text generation - Benchmarking

Hugging Face: Question answering - Benchmarking

Hugging Face: Summarization - Benchmarking

Hugging Face: Text classification, Token classification, Zero-shot classification - Benchmarking

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MASSIVE - Benchmarking

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HELM: Question answering, Summarization - Benchmarking

HELM: Toxicity - Benchmarking

HELM: Toxicity detection - Benchmarking

LLM Privacy - Attack

MASSIVE - Benchmarking

MIMIR - Benchmarking

Mark My Words - Benchmark

The Self-Perception and Political Biases of ChatGPT - Benchmarking

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- Appendix D: List of Common Adversarial Prompting Strategies
- D.1: Common Adversarial Prompting Strategies by Trustworthy Characteristic
- D.2: Common Adversarial Prompting Strategies by Generative AI Risk
- Appendix E: Common Risk Controls for Generative AI
- E.1: Common Risk Controls for Generative AI by Trustworthy Characteristic
- E.2: Common Risk Controls for Generative AI by Generative AI Risk
- Appendix F: Example Low-risk Generative AI Measurement and Management Plan
- 6.3 F.1: Example Low-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 6.4 F.2: Example Low-risk Generative AI Measurement and Management Plan by Generative AI Risk
- Appendix G: Example Medium-risk Generative AI Measurement and Management Plan
- 6.5 G.1: Example Medium-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 6.6 G.2: Example Medium-risk Generative AI Measurement and Management Plan by Generative AI Risk
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- 6.7 H.1: Example High-risk Generative AI Measurement and Management Plan by Trustworthy Characteristic
- 6.8 H.2: Example High-risk Generative AI Measurement and Management Plan by Generative AI Risk